

In the Claims

Please cancel claims 1 and 2.

Please amend Claim 3 as follows:

1. (canceled)

2. (cancelled)

3. (currently amended) ~~The method of Claim 2, wherein~~  
~~generating the weighted average comprises:~~ A method for  
interpolating a pixel value for a blank pixel location in a  
field from an interlaced video stream, the method comprising:  
selecting a boundary pixel grouping comprising common-  
field pixel pair comprising a common-field pixel and a  
cross-field pixel pair comprising a cross-field pixel,  
wherein both the common-field pixel pair and the cross-  
field pixel pair surround the blank pixel location.;

generating a weighted average from the boundary pixel  
grouping by:

    multiplying a luminance of a bottom pixel in the  
common-field pixel pair by a weighting coefficient to  
generate a first interpolated portion;

    multiplying a first cross-field luminance value  
by a complement of the weighting coefficient to  
generate a second interpolated portion, wherein the  
first cross-field luminance value is based on a  
luminance value of the cross-field pixel; and

    adding the first interpolated portion to the  
second interpolated portion to generate the weighted  
~~average.~~ average; and

assigning the weighted average to the blank pixel location.

4. (Original) The method of Claim 3, wherein the first cross-field luminance value is equal to the luminance value of the cross-field pixel, and wherein the cross-field pixel comprises a leading pixel in the cross-field pixel pair.

5. (Original) The method of Claim 3, wherein the first cross-field luminance value is equal to the luminance value of the cross-field pixel, and wherein the cross-field pixel comprises a trailing pixel in the cross-field pixel pair.

6. (Original) The method of Claim 3, wherein the cross-field pixel comprises a leading pixel in the cross-field pixel pair, wherein the cross-field pixel pair further comprises a trailing pixel, and wherein the first cross-field luminance value is equal to an average of the luminance value of the cross-field pixel and a luminance value of the trailing pixel.

7. (Original) The method of Claim 3, wherein the weighting coefficient is between 0 and 0.5.

8. (Original) The method of Claim 3, further comprising:  
multiplying a luminance of a top pixel in the common-field pixel pair by the complement of the weighting coefficient to generate a first adjustment portion;  
multiplying a second cross-field luminance value by the weighting coefficient to generate a second adjustment portion, wherein the second cross-field luminance value is based on a luminance value of the cross-field pixel;

adding the first adjustment portion to the second adjustment portion to generate a modified luminance value; and

replacing the luminance of the top pixel with the modified luminance value.

9. (Original) The method of Claim 8, wherein the second cross-field luminance value is equal to the luminance value of the cross-field pixel, and wherein the cross-field pixel comprises a leading pixel in the cross-field pixel pair.

10. (Original) The method of Claim 8, wherein the second cross-field luminance value is equal to the luminance value of the cross-field pixel, and wherein the cross-field pixel comprises a trailing pixel in the cross-field pixel pair.

11. (Original) The method of Claim 8, wherein the cross-field pixel comprises a leading pixel in the cross-field pixel pair, wherein the cross-field pixel pair further comprises a trailing pixel, and wherein the second cross-field luminance value is equal to an average of the luminance value of the cross-field pixel and a luminance value of the trailing pixel.